

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P523703

Luminaire Tested: **SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523703
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

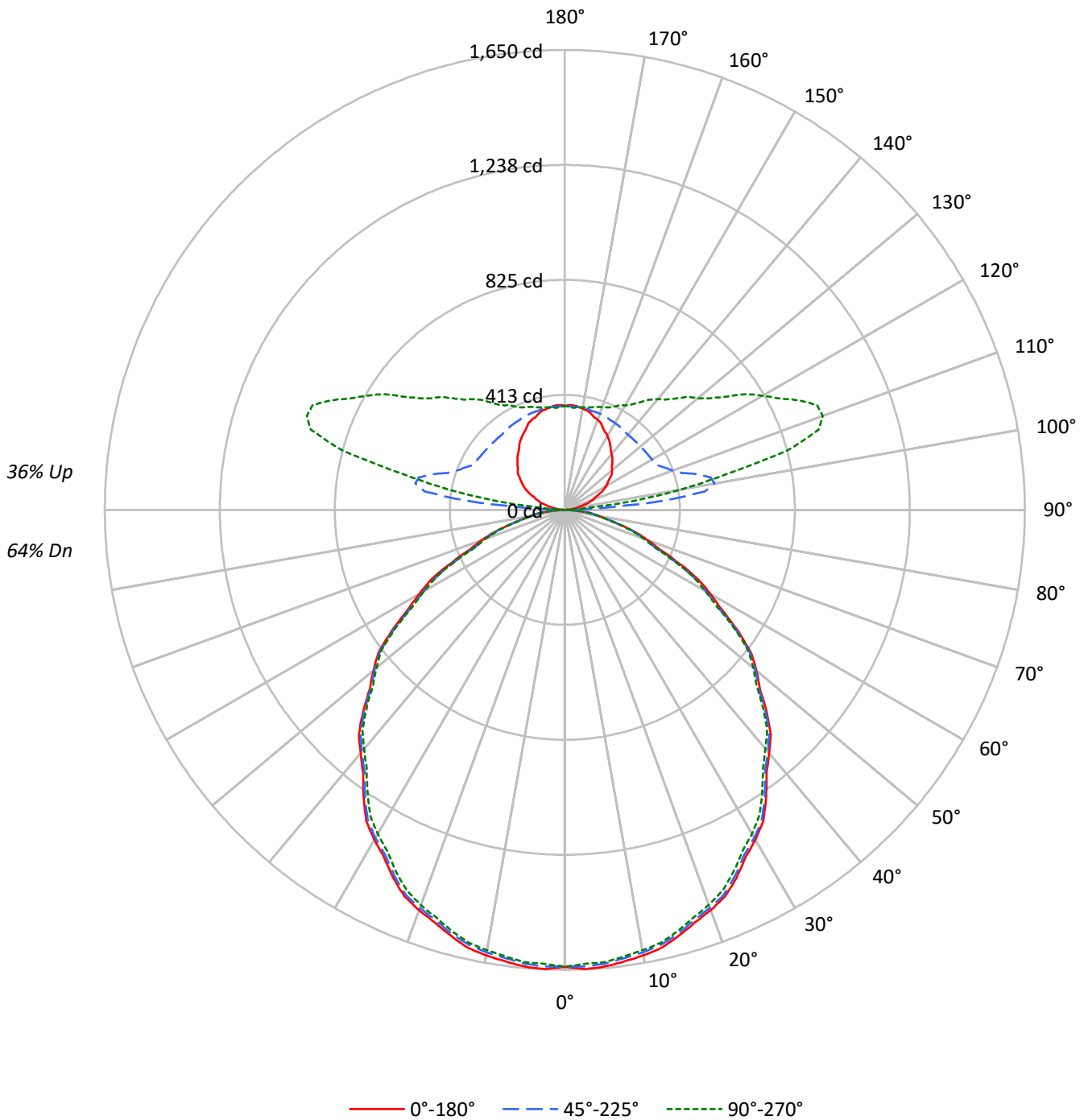
Lumens per Lamp: N/A
Luminaire Lumens: 6511.7 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	92	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50	46
3	84	75	67	62	79	71	64	59	63	58	53	55	51	48	49	46	43	39
4	77	66	58	52	72	63	56	50	56	50	46	49	45	41	44	40	37	34
5	71	59	51	45	67	56	49	43	50	44	39	44	40	36	39	35	32	30
6	66	53	45	39	61	51	43	38	45	39	35	40	35	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	25	23
8	56	44	36	31	53	42	34	29	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	49	38	31	26	34	29	24	31	26	23	28	24	21	19
10	49	37	30	25	46	35	28	24	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15125	15125	15125
5°	15235	15142	15089
10°	15210	15102	15035
15°	15109	15027	14945
20°	15009	14925	14812
25°	14830	14728	14582
30°	14556	14479	14296
35°	14176	14079	13900
40°	13722	13635	13480
45°	13347	13254	13122
50°	12868	12786	12661
55°	12202	12040	11948
60°	11108	10789	10737
65°	9787	9379	9346
70°	8449	8101	8101
75°	7272	7169	7069
80°	6413	6487	6333
85°	5018	5473	5473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.4
10°-20°	442.6	6.8
20°-30°	663.0	10.2
30°-40°	777.6	11.9
40°-50°	780.0	12.0
50°-60°	665.5	10.2
60°-70°	434.0	6.7
70°-80°	217.7	3.3
80°-90°	60.2	0.9
90°-100°	169.9	2.6
100°-110°	483.4	7.4
110°-120°	463.2	7.1
120°-130°	366.6	5.6
130°-140°	294.2	4.5
140°-150°	230.4	3.5
150°-160°	168.5	2.6
160°-170°	104.4	1.6
170°-180°	35.4	0.5
0°-30°	1260.6	19.4
0°-40°	2038.2	31.3
0°-60°	3483.7	53.5
0°-90°	4195.7	64.4
90°-120°	1116.5	17.1
90°-150°	2007.7	30.8
90°-180°	2316.0	35.6
0°-180°	6511.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1645	1630	1635	1629	1629	156
15°	1582	1566	1573	1567	1565	446
25°	1457	1440	1447	1434	1432	670
35°	1259	1246	1250	1236	1234	786
45°	1023	1016	1016	1006	1006	788
55°	759	756	748	744	743	674
65°	448	440	430	427	428	447
75°	204	204	201	200	198	221
85°	47	52	52	52	52	56
90°	0	0	0	0	0	3
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1649.6	1636.2	1639.3	1636.9	1630.1
5°	1645.0	1629.6	1635.0	1629.2	1629.2
7.5°	1633.8	1617.0	1622.3	1616.6	1616.3
10°	1623.5	1606.6	1612.0	1606.2	1604.8
12.5°	1608.6	1591.7	1598.2	1591.3	1591.0
15°	1581.8	1566.4	1573.2	1567.4	1564.6
17.5°	1551.7	1534.8	1543.0	1535.0	1533.8
20°	1528.7	1511.8	1520.1	1508.6	1508.6
22.5°	1501.1	1484.2	1493.6	1478.7	1478.7
25°	1456.8	1440.0	1446.8	1433.8	1432.4
27.5°	1404.3	1387.7	1394.8	1380.1	1379.8
30°	1366.3	1350.9	1359.1	1343.3	1341.9
32.5°	1324.9	1310.6	1316.6	1300.8	1299.4
35°	1258.6	1245.9	1250.0	1235.6	1234.1
37.5°	1188.7	1175.8	1180.4	1168.0	1167.5
40°	1139.3	1130.9	1132.1	1122.0	1119.2
42.5°	1093.3	1083.8	1085.0	1074.9	1074.4
45°	1022.9	1015.9	1015.8	1005.7	1005.7
47.5°	948.2	942.9	941.3	933.0	932.7
50°	896.5	892.3	890.8	883.6	882.1
52.5°	842.5	840.5	835.6	829.6	829.3
55°	758.6	755.8	748.5	744.2	742.8
57.5°	667.5	661.9	653.7	647.4	648.5
60°	602.0	596.4	584.7	581.9	581.9
62.5°	538.8	532.0	520.4	516.4	518.7
65°	448.3	439.8	429.6	426.7	428.1
67.5°	366.1	358.5	347.4	347.4	346.3
70°	313.2	309.0	300.3	300.3	300.3
72.5°	266.1	264.1	257.7	257.7	256.6
75°	204.0	204.0	201.1	199.7	198.3
77.5°	152.9	153.4	152.0	150.5	148.0
80°	120.7	123.5	122.1	120.7	119.2
82.5°	90.8	93.6	93.4	90.8	90.5
85°	47.4	51.6	51.7	51.7	51.7
87.5°	12.6	17.1	18.4	18.4	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)